# GEOGRAPHIC NEWS BULLETINS

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General Headquarters, Washington, D. C.

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NOTE TO TEACHERS.—Because so many schools and public libraries preserve copies of the GEOGRAPHIC NEWS BULLETINS, teachers will find the INDEX to Volume XI, contained in this issue, of value. The INDEX covers 30 issues from February 15, 1932, through the current number. An application blank which teachers may use in applying for the Bulletins follows Bulletin No. 1.

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### ANCIENT MEXICO MAY HAVE KNOWN "CASEY AT THE BAT"

Long before Cortez and his conquistadores invaded Mexico the Tarascos of Michoacán had a sort of ball game that accounts for the image of the prehistoric "home run king" in the center. Mexico City has some of the most fascinating museums in the world. The government is continuing its explorations in Oaxaca, Yucatan, and in the vicinity of the Mexican capital (See Bulletin No. 3).

### HOW TEACHERS MAY OBTAIN THE BULLETINS

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## New Central American Border Touches "Kashmir" of Honduras

A CENTRAL AMERICAN border dispute of more than a century's standing has been peaceably settled by a special tribunal headed by Chief Justice Charles Evans Hughes of the United States. Honduras and Guatemala have accepted the decision of the tribunal on a line between them which bisects an area contested since 1821, when the two countries won their independence from Spain.

The new boundary begins at El Salvador's border and runs northeast to the Caribbean Sea. Honduras' claim to the port of Omoa and the rich Cuyamel banana-growing district was sustained by the tribunal. Guatemala, in turn, received the area bordering the Montagua River. An aërial survey made by U. S. Army fliers last year proved of assistance to the arbiters.

### Forests, Copper, Silver and Coal

The wildest and least-known portion of the Honduras-Guatemala border is that in the lower, or southern, end, where the new line meets the boundary of El Salvador, smallest of Central American republics. This region, adjacent to the Honduran province of Ocotepeque, is one of the most mountainous districts in the world. Tall peaks of the Continental Divide isolate it from its neighbors and the other provinces of Honduras.

In some respects Ocotepeque might be compared to Kashmir. Like the famous Indian State, Ocotepeque is almost completely ringed with lofty mountains, with its habitable areas in the wide, well-drained and watered plains between them. Ocotepeque, however, has two principal valleys to Kashmir's one: Sensenti, a fertile expanse irrigated by the River Venta, and ringed with rocky summits; and Ocotepeque, farther west, similar but more rugged in appearance.

In the forests of this part of Honduras and in neighboring Guatemala are vast, almost untouched resources of valuable construction timber and dyewoods, while under the mountain soil are equally unexploited deposits of copper, silver, and coal.

### Remote Capital Surprisingly Modern

Despite its remote situation the city of Ocotepeque, capital of the province, is surprisingly modern in many of its aspects. The picturesque stone and 'dobe houses are neatly laid out along streets that are straight and paved with native stone. There are several public buildings of imposing appearance, including the municipal building, and the church. Ocotepeque also has a public park, good primary schools, and an aqueduct which assures a constant supply of good water for its 6,187 inhabitants.

The city is well situated on the left bank of the Lempa River. A small stream flowing into the Lempa at this point divides the town into two parts. With an altitude of 2,300 feet above sea level, Ocotepeque is blessed with a fresh and agreeable climate and is considered one of the most healthful spots in the Republic.

Ocotepeque is connected by road with both El Salvador and Guatemala, and also with other regions of Honduras. A railroad is projected to Guatemala. Cereals, mostly wheat, are grown in the surrounding valley, as well as coffee, sugar, and semitropical fruits. Two mills grind the wheat into flour, most of which is exported to El Salvador. The natives of the city also manufacture many straw hats, or sombreros, of a style peculiar to the district.



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**"FLOATING GARDENS" THAT FILL MEXICO CITY'S VEGETABLE BASKET**

**Once Xochimilco was shallow swampland and lake. Then floating islands, made of soil on large rafts of sticks, were poled into it by Indians. On these islands, now stationary, are raised most of the vegetables and the incredible quantities of flowers sold in the markets of the Mexican capital. The trees, a kind of poplar, are peculiar to the place. From Xochimilco (whose name means "Where Flowers Grow") into Mexico City runs the ancient Vigo Canal, long a channel of traffic for Indian boatmen hauling flowers, vegetables and fowls to city markets (See Bulletin No. 3).**

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## Eastern Galicia, Poland's Storehouse of Salt, Oil, and Coal

WE HEAR so much to-day of the replacement of man and animal power by machines that a recent news item from Poland comes as somewhat of a surprise. In Eastern Galicia, horse carts, says the report, are competing successfully with both automobiles and railroads.

The State-owned Polish railways have slashed freight charges on farm products and building materials in an attempt to recapture their slipping short-haul trade.

### Landscape like Western Ohio

Where and what is Eastern Galicia? First of all, it was the biggest bite in Austria's 500 miles on the rim of the Poland pie, neatly divided and entirely consumed by imperial Russia, Germany, and Austria in 1795. To-day, Eastern Galicia is a rough rectangle of about 20,000 square miles, an area about equal to that of Vermont and New Hampshire. A better fit could be made, area by area, landscape for landscape, by planting it in the western half of Ohio.

Lwow is the capital of Eastern Galicia. It lies 200 miles southeast of Warsaw, and, like Warsaw, it is strongly Polish in its population. The portion of Lwow that is not Polish is mostly Jewish. The Ukrainians or, more properly, the Ruthenians, comprise a majority of Galicia's population but do not control the cities. They are farmers.

Most newspaper accounts and many books by travelers into Galicia use the names Ukrainian and Ruthenian interchangeably. This is correct and yet incorrect. A Ruthenian is a Ukrainian. Ukraine is that vast steppe of southern Russia stretching in endless rolling and treeless prairie from the Caspian and the Black Sea west to Poland. On these grasslands live the Ukrainians, quite different from the melancholy and more stolid north or White Russians. They number about 40,000,000. Galicia is the western outpost of the Ukraine.

### Once Chiefly a Battleground

Nothing is more eloquent of the history of Galicia than the fact that its oldest shrines and buildings are underground. Everything above ground is relatively new because invader has stepped on the heels of invader. What they did not burn they shattered with cannon. Some say that Nature set aside Galicia for crops, but history shows that its chief utility has been as a battlefield.

In the galleries of the salt mines at Wieliczka, safe from shot and shell, are many old shrines of Eastern Galicia. These mines have been operated since the eleventh or twelfth centuries. There are now seven levels of galleries. The mines are a veritable city which need be deserted only for sleeping quarters. There is a magnificent crystal salt ballroom, 300 feet long and 200 feet high, where the village celebrates festivals. It is lighted by chandeliers of huge, glittering salt crystals. St. Stanislaus and St. Clement stand like Lot's wife—solid salt.

The subterranean cathedral of St. Anthony dates back to the seventeenth century. There are lakes in which ferries ply back and forth and a complete restaurant. A pony-drawn railway system serves the mines themselves. All this in the safest place in Galicia—below ground.

A curious black substance, which the Ukrainian peasants used for years to lubricate the groaning axles of their farm carts, the world has now raised to high



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Only since 1906 has Ocotepeque been a separate province, but the city from which it derived its name has been a community known to Europeans since 1536, more than 70 years before the English set foot on Jamestown Island in Virginia.

Note: See also "Buenos Aires to Washington by Horse," *National Geographic Magazine*, February, 1929; "To Bogotá and Back by Air," May, 1928; "How Latin America Looks from the Air," October, 1927; "Guatemala, Land of Volcanoes and Progress," November, 1926; "The Foremost Intellectual Achievement of Ancient America," February, 1922; "A Little Journey in Honduras," August, 1916; and "The Countries of the Caribbean," February, 1913.

For the ports of the Caribbean see: "The 'Banana Coast' of Honduras," GEOGRAPHIC NEWS BULLETIN, week of May 11, 1931.

**Bulletin No. 1, February 13, 1933.**

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**OFF THE BEATEN TRACK IN HONDURAS**

**There are no hotels back in the mountains of this Central American republic, so the traveler must spend the night in a native house. He is welcome to the best the family affords, but usually prefers to sling his own hammock rather than occupy the bed of stretched bullhide or canvas. All supplies and equipment must be carried on ponies. Honduras has two good highways, linking its railroadless capital, Tegucigalpa, with both the Atlantic and the Pacific.**

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## Motor Highway to Mexico City Nearing Completion

MEXICO is pushing forward its greatest highway project—an improved road linking the United States border at Laredo, Texas, with its capital, Mexico City. The Federal Highway Commission of Mexico states that this 770-mile section, opening up northeastern Mexico to tourist travel and trade, will probably be in passable condition for motor traffic in June, 1933.

The new Mexican route is a part of the proposed 10,000-mile Pan-American Highway linking Washington, D. C., with Buenos Aires, Argentina, and other Latin American capitals.

### New "Farthest South" for Motorists

Motorists seeking new roads to conquer will find that this "farthest south" for a continuous highway journey from the United States is a roadway of spectacular variety. The route traverses deserts, mile-high mountains, ranch country, lush tropical jungles, and in places, runs along deep cañons where the highway is a mere scratch in the steep mountainside.

From San Antonio, Texas, a paved road southward to the twin border cities of Laredo and Nuevo Laredo ties in the new Mexican highway with the improved road system of the United States. Nuevo Laredo, in the Mexican State of Tamaulipas, and the first city to be reached after crossing the Rio Grande, has developed amazingly in the last two years, since pavement was completed to Monterrey. This 151-mile section compares favorably with the best American highways. One stretch runs 45 miles across the desert without a curve.

Monterrey, the capital of the State of Nuevo Leon, is surrounded by mile-high peaks, the most conspicuous being its famous Saddle Mountain (Monte de la Silla). Founded late in the sixteenth century, Monterrey is older than any city in the United States with the exception of St. Augustine, but it belies its age with busy steel mills, smelters, flour mills, breweries, glass works, and numerous other factories. As the most important manufacturing city in the Republic, it is sometimes known as "the Pittsburgh of Mexico." Monterrey, with 85,000 population, is Mexico's fourth largest city.

### Battlefield Now a Golf Course

Monterrey has a fairly large American "colony," a casino, modern hotels, as well as old Spanish mansions with carved doorways and patios bright with flowers and birds. One of the most stubbornly fought battles of the Mexican-American war took place on the outskirts of Monterrey for the possession of the fortified El Obispado Viejo (Bishop's Old Palace), now a picturesque ruin. Part of the battlefield is a golf course.

An improved gravel road leads from Monterrey over the mountains to the west to Saltillo, capital of Coahuila, a region of ranches where long-horned cattle graze. This eventually will be part of a through route to Mexico City via San Luis Potosi.

The main highway to-day, however, strikes south to Ciudad Victoria. This 180-mile section is about a quarter paved and the rest is all-weather gravel. Here the road winds through one of the chief fruit-raising sections of Mexico. Corn, sugar cane, pecan nuts, and cattle are also raised on these rolling hills, midway between the Gulf of Mexico and the plateau upon which most of Mexico sits a mile above sea level.

Ciudad Victoria, capital of Tamaulipas, has a population of 10,000, and is an important shipping center for the minerals and agricultural products of the Piedmont region. All-weather gravel surface at present continues southward on the main highway for another 46 miles, or a total distance of about 370 miles below the United States border.

### Paradise for Hunters

From here to the little town of Valles, in the State of San Luis Potosi, the road surface alternates between gravel and graded earth. This region is a paradise for hunters—wild boar, deer, raccoon, quail and turkey being plentiful. Coffee, cotton, rice and vanilla beans are the principal crops.

In the rugged mountain section between Valles and the village of Jacala, in the State of Hidalgo, construction work has been moving forward since April, 1931. Here the road climbs from dense tropical jungles and swamps, where parrots fly overhead and gorgeous flowers and banana groves border the highway, to the tableland. Experienced motorists have already negotiated this sector, and, while it may not be entirely completed by June, the government expects to have it in passable condition for expert drivers. Overnight accommodations are still rather primitive in this district, but tourist camps are projected.



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estate. Oil seepage pointed the way to petroleum discoveries in Galicia. Although the field has not produced any remarkable gushers, several foreign companies now employ Polish workmen to produce the four and a half million barrels plus per year.

Eastern Galicia is also a large producer of natural gas and coal. The entire region has many untouched natural resources.

Note: For supplementary reading and natural color photographs of native costumes see: "Poland, Land of the White Eagle," *National Geographic Magazine*, April, 1932; "Struggling Poland," August, 1926; "Looking Down on Europe," March, 1925; "Devastated Poland," May, 1917; and "Partitioned Poland," January, 1915. The *National Geographic Magazine* will publish a new survey of Poland in the March, 1933, issue.

**Bulletin No. 2, February 13, 1933.**

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**GAY COSTUMES BRIGHTEN UPPER SILESIA**

**Four young people of Sokolowka prove that the machine age has not displaced their colorful native clothes. This southeastern corner of Poland is a land of stern reality, but nowhere are the peasant dresses brighter or the people more kindly and hospitable. Some Polish women prefer a sleeveless white sheepskin coat trimmed with brown wool.**

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## Micronesia, Japan's Lonely Mandate in the Pacific

JAPAN has been questioned recently by the League of Nations in regard to developments in its mandated islands of Micronesia, tiny bits of land in the Pacific between Hawaii and the Philippines. A League inquiry reveals that the cost of port improvements jumped from 94,145 yen in 1927 to 507,896 yen last year. Japan explains that the improvements were made to help trade, especially in sugar.

Sown in the form of an inverted T, the former German islands of Micronesia, now under Japanese mandate, stretch 2,462 miles east and west, just north of the Equator. Small as they are, they stake out about 1,500,000 square miles. There are four main groups; the Carolines, the Marianas or Ladrones, the Palaus, and the Marshall Islands. Almost in the middle of the cluster, an island among islands, lies Guam, an unfortified American possession, and an important cable station.

### Life among the Natives

Life among the natives of Micronesia is described in a communication to The Society by Junius B. Wood:

"Ponape is about the center of the Japanese mandatory islands. Its life and customs may be taken as a standard for all the others. Those who have passed their lives along this border of the Equator say it is the cleanest, healthiest, and happiest. Conditions and habits vary in the others; some are better and some are worse, according to the individual tastes.

"Each group of islands has a language of its own. The years are not long past when each was a petty kingdom, and the stranger cast up on its shores was hailed as a gift from the gods, whose head quickly adorned the door post of the first islander to greet him!

"The extent of American missionary activity can be gauged by the length of the women's skirts. In Yap, which missionary influence has hardly touched, fluffy fiber clothes cling precariously. In the Marianas and middle Carolines, skirts start above the waist-line. In Kusaie, the easternmost of the Carolines, they reach to the shoulders in one-piece wrappers. In the Marshalls, where the missionary work has flourished without interruption, the long-trained wrappers, sweeping up the dust, are further ornamented with high ruffle collars and wrist-length sleeves.

"Formerly, the natives were walking pictorial histories. After the missionaries came, tattooing was discouraged, and in recent years it has been prohibited. It was considered a sign of courage, without which a young man or young woman was not worthy to marry.

### When Beauty Requires Courage

"The young people still practice an old test of courage by pricking cicatrices, or little raised welts, on their flesh. Most of the girls prefer the right shoulder for the adornment. The boys adorn shoulders and chests.

"The welts, which are formed by making a fairly deep cut in the flesh and keeping it open until the new skin grows into a ridge, are usually about an inch long and a quarter of an inch wide. Sometimes they are arranged in straight lines, one for each admirer, like the bangles on a high-school girl's friendship bracelet; again, they may make an asterisk or are scattered.

"The older people still show the old adornment, the lobes of the ears stretched into loops until they touch the shoulders, and bodies and limbs tattooed, the most



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From Jacala southward an improved highway will carry the route through Pachuca, an important silver mining town, into Mexico City. Rapid progress has been made here in recent months, and what some travelers once characterized as the "most dangerous road in the world" may soon be a modern boulevard, a monument to engineering skill. Many of the engineers are youthful Mexicans. Near Pachuca are great basaltic formations sometimes called "the Giant Causeway of America."

## Other Mexican Roads

From Mexico City modern roads are branching out in all directions. The longest, of all-weather gravel construction, extends over the Old Spanish Trail via picturesque Taxco to Acapulco, on the Pacific. Another carries the Pan-American Highway southward to the city of Puebla. Still another runs northwest to Huehuetoca, in the direction of San Luis Potosi. A branch road from Villa Juarez, on the new highway between Laredo and Mexico City, taps the Gulf of Mexico at Tampico.

Throughout Mexico garages and service stations are being erected. The American motorist may have some difficulty translating litres into gallons and kilometers into miles, for Mexico uses the metric system, but almost everywhere some English is spoken, and it does not take long to pick up enough Spanish to know that *"alto"* means "stop"; *"modere su velocidad"* means "slow down"; and *"no se estacione"* means "no parking!"

Note: Mexico, our neighbor to the south, is both the "Egypt" and "Greece" of North America. For additional references to its historic past and changing present see: "Monte Albán, Richest Archeological Find in America," *National Geographic Magazine*, October, 1932; "Unearthing America's Ancient History," July, 1931; "North America's Oldest Metropolis," July, 1930; "Buenos Aires to Washington by Horse," February, 1929; "To Bogotá and Back by Air," May, 1928; "How Latin America Looks from the Air," October, 1927; "Among the Zapotecs of Mexico," May, 1927; "Chichen Itzá, an Ancient American Mecca," January, 1925; "The Isthmus of Tehuantepec," May, 1924; "Ruins of Cuicuilco May Revolutionize Our History of Ancient America," August, 1923; "Along the Old Spanish Road in Mexico," March, 1923; "Adventuring down the West Coast of Mexico," November, 1922; "The Foremost Intellectual Achievement of Ancient America," February, 1922; and "Along Our Side of the Mexican Border," July, 1920.

**Bulletin No. 3, February 13, 1933.**

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**HOLY WEEK HAS ADDED ATTRACTIONS IN MEXICO**

**In addition to church services, paper images of Judas are burned, fireworks are set off, and street processions are held day and night to commemorate the successive parts of the Easter story. This crowd in the Indian market in the Alameda is buying paper toys and fireworks.**

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distinctive effect being broad, parallel stripes of solid black from ankles to thighs. However, they follow modern conveniences and wear the long loops wrapped around the ears close to the head when they work, while skirts drape the gaily-tattooed legs of the social leaders of former days.

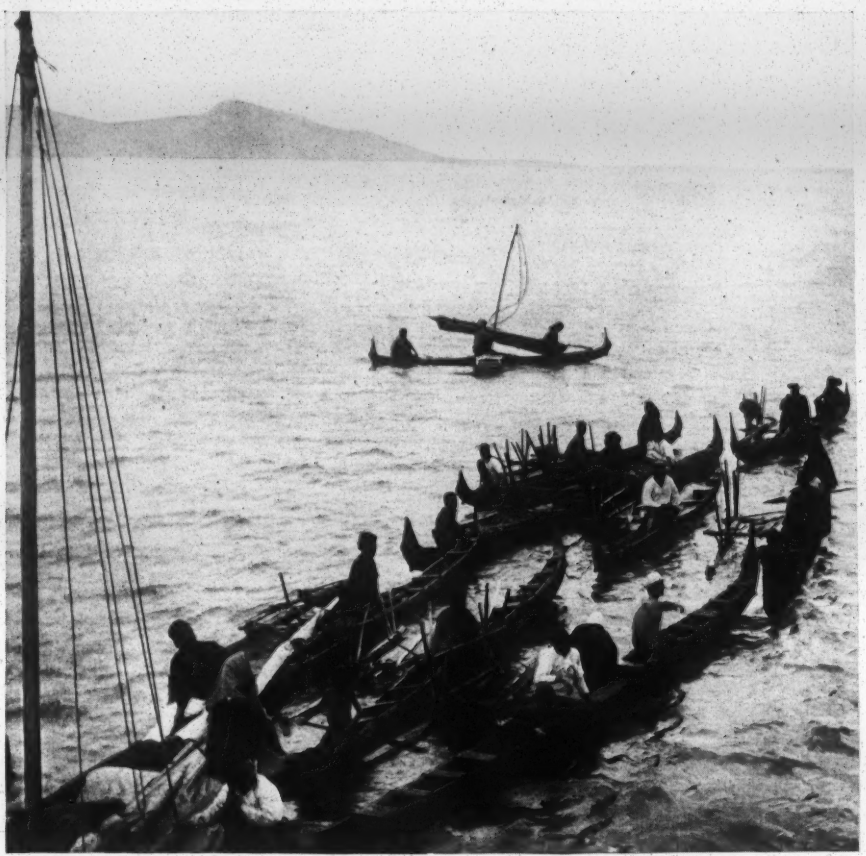
### Movies and Sword Dancing

"One night I attended open-air movies and Japanese sword dancing by sailors and a couple of native boys on the lawn of the official Resident. Visitors and dignitaries had chairs, while the others stood or squatted on the cool grass.

"Movies were a novelty to the natives, but comparatively few had the energy to walk the quarter mile from the settlement to the grounds. An American comic of a man wrecking furniture, and pictures of Japanese warships, including a boat crew feverishly lowering a cutter, were the hits of the evening."

Note: For additional references see: "The Greatest Voyage in the Annals of the Sea," *National Geographic Magazine*, December, 1932; "The Geography of Money," December, 1927; "The Columbus of the Pacific," January, 1927; and "Yap and Other Pacific Islands under Japanese Mandate," December, 1921.

**Bulletin No. 4, February 13, 1933.**



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**THE MERCHANT MARINE OF MOEN ISLAND, CAROLINE ISLANDS**

**The natives of this tiny outpost of Japan's mandate in the Pacific make their canoes so long and narrow that outriggers are needed to prevent them from upsetting. Moen Island is one of some forty flecks of green in Truk Lagoon. Coconuts and fish are the principal foods, and, as the islands are only a short distance north of the Equator, the most primitive of shelters and a minimum of clothing suffice.**

**Islands**—*Continued*
**Channel:** The Channel Islands, Bits of France Inherited by England, illustrated, April 4, 1932.
**Cocos:** Cocos Island Again Mocks Treasure Hunters, illustrated, October 31, 1932.
**Corsica:** France Wages War on Corsican Banditry, illustrated, March 7, 1932.
**Cuba:** Oriente, Cuba's Earthquake Zone, and Santiago, illustrated, February 29, 1932.
Sugar's Long Journey to the Dinner Table, April 11, 1932.
"Old Ironsides" Calls at Guantánamo, a Bit of U. S. A. in Cuba, illustrated, January 2, 1933.
**Devil's:** Devil's Island, Lonely but Not as Terrifying as Pictured, illustrated, November 14, 1932.
**Greenland:** Coast Guard Engaged in Annual "Battle with the Bergs," map, April 25, 1932.
Greenland's East Coast Claimed by Norway and Denmark, illustrated, January 2, 1933.
**Jamaica:** Jamaica, Island of Plantations and Phantom Pirates, 2 illustrations, November 28, 1932.
**Java:** Java's De Luxe Trains Traverse Land of Primitive Artisans, March 7, 1932.
Netherland India, the Equator's Emerald Necklace, January 30, 1933.
**Micronesia (South Seas):** Micronesia, Japan's Lonely Mandate in the Pacific, illustrated, February 13, 1933.
**Netherland India:** Netherland India, the Equator's Emerald Necklace, illustrated, January 30, 1933.
**New Guinea:** City Brought by Air Rises in New Guinea Jungle, 2 illustrations, December 12, 1932.
**Philippines:** How Do Jungle Tribes and the Eskimos Differ? 4 illustrations, March 7, 1932.
Sulu Islands, Where Uncle Sam Has a Miniature Revolt, illustrated, December 5, 1932.
America's Far Flung Overseas Domain, 2 illustrations, February 6, 1933.
Additional illustration: Swarm of Locusts, April 4, 1932.
**Puerto Rico:** Puerto Rico, "The Switzerland of the West Indies," 2 illustrations, October 17, 1932.
**Sakhalin:** Sakhalin Island, Where Japan and Soviet Russia Meet, January 23, 1933.
**Sea Isles (U. S.):** Sapelo, and Other Historic Georgia "Sea Isles," illustrated, March 28, 1932.
**Sumatra:** Illustration: Grinding Rice in Community Sheds, January 30, 1933.
**Thira:** Greek Island of Thira To Harness Volcanic Heat, April 4, 1932.
**Tristan da Cunha:** Tristan da Cunha, One of the World's Loneliest Isles, April 25, 1932.

## MAPS

World Changes Keep Map Makers on the Jump, illustrated, December 5, 1932.
Modern Greece and Its Island Outposts, April 4, 1932; Greenland and North Atlantic, April 25, 1932; Holland, Showing New Dike, October 10, 1932; Bermuda, October 17, 1932; Iraq, October 31, 1932; Manchuria, November 28, 1932; Nicaragua, January 9, 1933; Leticia Region, South America, January 23, 1933.

## GEOGRAPHY OF LITERATURE

Frankfurt and Weimar To Mark Goethe Centennial, March 21, 1932.
The Old English Inn Still Has Its Sign Out, April 4, 1932.
New Theatre for the Birthplace of the Greatest Dramatist (Shakespeare), illustrated, May 2, 1932.
Huge Stadium Found at "Antioch the Glorious" (Ben Hur), illustrated, November 21, 1932.
The Lakes of Killarney, Ireland's Most Famed Beauty Spot, illustrated, December 19, 1932.
Additional illustration: Chinese Scrolls, February 22, 1932.

## COMMERCE AND INDUSTRY

**Agriculture:** The Banana, Native of Asia, Whose Chief Home Is Central America, November 7, 1932.
Jamaica, Island of Plantations and Phantom Pirates, November 28, 1932.
Wheat, King of Cereals, and the Australian Grain Race, illustrated, January 2, 1933.
Rice, Staff of Life for Half the World, 3 illustrations, January 30, 1933.
Netherland India, the Equator's Emerald Necklace, illustrated, January 30, 1933.
Additional illustrations: Rice Farm, Philippines, March 9, 1932; Planting Sugar Cane, Florida, March 14, 1932; Fighting Locusts, Palestine, April 4, 1932; Coffee Harvest, Puerto Rico, October 17, 1932, "Floating Gardens," Xochimilco, Mexico, February 13, 1933.
**Bananas:** The Banana, Native of Asia, Whose Chief Home Is Central America, illustrated, November 7, 1932.
Jamaica, Island of Plantations and Phantom Pirates, November 28, 1932.
**Boats and Ships:** The Romantic Ohio Now a Busy Artery of Trade, November 14, 1932.
A Steamer That Takes a Freight Train to Sea, illustrated, November 21, 1932.
Normandy, Land of Shimmering Streams and Apple Blossoms, illustrated, November 21, 1932.
"Old Ironsides" Calls at Guantánamo, a Bit of U.S.A. in Cuba, January 2, 1933.
The Upper Amazon and Its Seaports 2,000 Miles from the Sea, illustrated, January 23, 1933.
Additional illustrations: Slipper Boat, Chinese Harbor, February 15, 1932; Potomac River Boat at Mt. Vernon, February 22, 1932; Sail Boat, Rio de Janeiro, March 14, 1932; Dugout Canoes Used as "Hanging Gardens," April 18, 1932; Boats, Bahama Bay, April 25, 1932; Arab Dhows and Tramp Steamers, Eritrea, November 7, 1932; River Steamer, Bengal, India, November 7, 1932; Boat with Cargo of Lumber, Jamaica, November 28, 1932; Fishing Boat, Philippines, December 5, 1932; Boat Passing Through Pedro Miguel Locks, Panama Canal, December 19, 1932; Canoes, Potomac River, January 2, 1933; Australian Grain Ship, January 2, 1933; Japanese Fishing Fleet, January 23, 1933; *Jangada*, Brazil, February 6, 1933; Canoes, Caroline Islands, February 13, 1933.
**Bridges:** New Bridges, Dams, Highways, Canals, and Railroads of 1932, January 16, 1933.
Bridging San Francisco Bay, February 6, 1933.
**Canals:** Too Much Water Halts Panama Canal Traffic, illustrated, December 19, 1932.
New Nicaraguan Railway Near Proposed Canal Route, map, January 9, 1933.
Additional illustrations: Drainage Canal, Florida, March 14, 1932; Drainage Canal, Italy, October 31, 1932; Welland Canal, St. Lawrence System, December 5, 1932.
**Coal:** The Saar, Bone of Contention Between France and Germany, illustrated, October 17, 1932.
Additional illustration: Open-pit Coal Mine, Fushun, Manchuria, January 16, 1933.
**Coffee:** São Paulo, Center of Brazil's "Tempest in a Coffee Pot," October 24, 1932.
Additional illustration: Coffee Harvest, Puerto Rico, October 17, 1932.
**Copper:** Michigan's Upper Peninsula, Land of Copper, Iron, Timber, and Limestone, illustrated, April 11, 1932.
Additional illustration: Copper Mining Community, Chile, January 16, 1933.
**Cotton:** Anglo-Egyptian Sudan, Land of Cotton, Gum Arabic and Ivory, October 24, 1932.
**Crabs:** Crabs—Sponge, Green, Peeler, Buster, Soft Shell, Buckram, and Hard Shell, illustrated, April 18, 1932.
**Currency and Mediums of Exchange:** The World's Ever-Shifting Pile of Gold, March 28, 1932.
Wheat for Coffee and Nitrate, Potatoes for Education, Recall Barter Days, illustrated, October 17, 1932.
**Dyes:** Illustration: Dye-yielding Wood, Jamaica, November 28, 1932.
**Fairs and Bazaars:** How Great Nations Extend Their Foreign Trade, November 28, 1932.
Toy Fair Sets Stage for the Paris Christmas, December 19, 1932.
**Felt:** Illustration: Roles of Felt, Manchuria, March 28, 1932.
**Fish and Fishing:** Fish-Jaw Oil Lubricates Delicate Machinery, illustrated, March 7, 1932.
"Sharking," a New and Exciting Sea Industry, illustrated, October 24, 1932.
Additional illustrations: Shark-sucker, October 24, 1932; Hauling in a Fishing Boat, Normandy, November 21, 1932; Fishing Boat, Philippines, December 5, 1932; Fishing Boats, Japan, January 23, 1933; Fishing Boat, Brazil, February 6, 1933; Packing Fish on Donkeys, Arabia, February 6, 1933.
**Food:** Sugar's Long Journey to the Dinner Table, illustrated, April 11, 1932.
Rice, Staff of Life for Half the World, January 30, 1933.
Wheat, King of Cereals, and the Australian Grain Race, January 2, 1933.
Illustrations: Persian Bread, February 29, 1932; Porpoise Is Food in Somaliland, March 7, 1932; Celebrating the Passover, Palestine, April 4, 1932; In a Korean Kitchen, April 11, 1932; A Kitchen in Czechoslovakia, April 18, 1932; Open-air Restaurant, Samarkand, November 21, 1932; Native Food, Iraq, January 16, 1933.
**Ginseng:** Ginseng, Which the United States Grows but Does Not Use, December 12, 1932.

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**Rumania:** Bessarabia, Bone of Contention Between Russia and Rumania, February 29, 1932.
**Spain:** Mercury, Liquid Metal of a Thousand Uses, October 10, 1932.
Bilbao, the Pittsburgh of Northern Spain, 2 illustrations, December 12, 1932.
Balearic Islands, a New Mecca for Tourists and Artists, 2 illustrations, January 9, 1933.
Additional illustration: Rock of Gibraltar, November 28, 1932.
**Switzerland:** Geneva, Scene of World Disarmament Conference, 2 illustrations, February 29, 1932.
**Turkey:** The Turk in Search of a Surname, illustrated, January 9, 1933.
**Union of Soviet Socialist Republics:** Bessarabia, Bone of Contention Between Russia and Rumania, illustrated, February 29, 1932.
Moscow's "Red Square" Has Many Colors and It Isn't a Square, illustrated, November 7, 1932.

## POLAR REGIONS

**Antarctic:** Illustration: Radio Towers, Little America, November 14, 1932.
**Greenland:** Coast Guard Engaged in Annual "Battle with the Bergs," map, April 25, 1932.
Greenland's East Coast Claimed by Norway and Denmark, illustrated, January 2, 1933.

## NORTH AMERICA

**General:** More Geographic "April Foolers," March 28, 1932.
**Alaska:** The Eskimo, Guardian of the Last Frontier, April 25, 1932.
Mount McKinley and Our Second Largest National Park, illustrated, January 30, 1933.
**Canada:** The St. Lawrence, Historic Highroad to the West, illustrated, December 12, 1932.
Additional illustration: Railway School Car, January 16, 1933.
**Mexico:** Oaxaca, and "An American Tomb of Tutankhamen," illustrated, February 15, 1932.
The Twenty-Eight States of Mexico, 4 illustrations, April 25, 1932.
The Rio Grande, Our Most Restless Boundary, January 16, 1933.
Motor Highway to Mexico City Nearing Completion, 3 illustrations, February 13, 1933.
Additional illustration: American Consulate, Acapulco, Mexico, November 28, 1932.
**Panama Canal:** Too Much Water Halts Panama Canal Traffic, illustration, December 19, 1932.

## UNITED STATES

**General:** What's in a Place-Name? January 30, 1933.
**Arkansas:** Mercury, Liquid Metal of a Thousand Uses, October 10, 1932.
**California:** Bridging San Francisco Bay, 2 illustrations, February 6, 1933.
**Colorado:** Colorado's Sand Dunes Latest National Monument, illustrated, May 2, 1932.
Pike's Peak, North America's Best Known Mountain, illustrated, January 23, 1933.
**District of Columbia:** "Seeing Cherry Trees in Bloom," Now a Washington Tradition, 2 illustrations, April 11, 1932.
Theodore Roosevelt Island, a Potomac "Jungleland," illustrated, January 2, 1933.
**Florida:** The Everglades, Florida's Bid for a National Park, 3 illustrations, March 14, 1932.
Additional illustrations: Outdoor School Studying Geography, Sarasota, December 5, 1932; Outdoor Café, Palm Beach, January 30, 1933.
**Georgia:** Sapelo, and Other Historic Georgia "Sea Isles," illustrated, March 28, 1932.
**Illinois:** Illustration: Cutting "Pearl" Button Disks, January 9, 1933.
**Louisiana:** Illustration: Rice Mill, Lake Charles, January 30, 1933.
**Maryland:** Three Hundred Years of Maryland's Charter, 2 illustrations, December 19, 1932.
Additional illustration: Crabbing Industry, Crisfield, Maryland, April 18, 1932.
**Michigan:** Michigan's Upper Peninsula, Land of Copper, Iron, Timber and Limestone, illustrated, April 11, 1932.
Additional illustration: Salt Mine, near Detroit, Michigan, February 29, 1932.
**New Hampshire:** Illustration: Skiing, Dartmouth's Winter Carnival, Hanover, February 15, 1932.
**New Mexico:** The Rio Grande, Our Most Restless Boundary, illustrated, January 16, 1933.
**New York:** Lake Placid, Scene of Olympic Winter Games, February 15, 1932.
New York City to Reproduce Mount Vernon, 2 illustrations, February 22, 1932.
**North Dakota:** Illustration: Tornado in North Dakota, April 11, 1932.
**Ohio:** Illustration: Soap Factory, Cincinnati, February 6, 1933.
**Oklahoma:** Salt, the World's Most Essential Mineral, February 29, 1932.
**Pennsylvania:** Illustration: Glass-Blowing, February 22, 1932.
**Rhode Island:** What's in a Place-Name? January 30, 1933.
**South Dakota:** Illustration: Custer State Park, March 28, 1932.
**Virginia:** New York City to Reproduce Mount Vernon, 2 illustrations, February 22, 1932.
Gunston Hall, Historic Mason Estate, Given to Virginia, 2 illustrations, March 21, 1932.
Arlington, "Fame's Eternal Camping Ground," 2 illustrations, December 5, 1932.
Alexandria Plans First National Shrine to Education, illustrated, December 12, 1932.

## CENTRAL AMERICA

**General:** The Banana, Native of Asia, Whose Chief Home Is Central America, illustrated, November 7, 1932.
**Honduras:** New Central American Border Touches "Kashmir" of Honduras, illustrated, February 13, 1933.
**Nicaragua:** Léon and Granada, Ancient Rivals for Nicaragua's Capital, illustrated, April 18, 1932.
New Nicaraguan Railway Near Proposed Canal Route, map, January 9, 1933.

## SOUTH AMERICA

**General:** More Geographic "April Foolers," March 28, 1932.
Explorer Explodes Some Fallacies of Tropic Regions, April 18, 1932.
**Argentina:** Volcanoes of the Andes, Safety Valves of South America, January 16, 1933.
**Bolivia:** Bolivia, Paraguay and the Gran Chaco Trouble Zone, illustrated, October 10, 1932.
Iraq, Manchuria, the Chaco, and Siam in 1932 Spotlight, January 16, 1933.
**Brazil:** Explorer Explodes Some Fallacies of Tropic Regions, April 18, 1932.
São Paulo, Center of Brazil's "Tempest in a Coffee Pot," illustrated, October 24, 1932.
The Upper Amazon and Its Seaports 2,000 Miles from the Sea, map, January 23, 1933.
Natal, Aërial Front Door to Brazil, illustrated, February 6, 1933.
Additional illustration: Palace at Rio de Janeiro, March 14, 1932.
**Chile:** Volcanic Ash, Added Hazard on "Most Difficult Airmail Route," illustrated, May 2, 1932.
Volcanoes of the Andes, Safety Valves of South America, illustrated, January 16, 1933.
**Colombia:** Cartagena, Walled City of the Spanish Main, illustrated, March 21, 1932.
The Upper Amazon and Its Seaports 2,000 Miles from the Sea, January 23, 1933.
**Ecuador:** Quito, a City on the Equator with a Springlike Climate, 2 illustrations, January 9, 1933.
**French Guiana:** Devil's Island Lonely but Not as Terrifying as Pictured, 2 illustrations, November 14, 1932.
**Paraguay:** Paraguay, Chief Producer of Petitgrain Oil, illustrated, March 14, 1932.
Bolivia, Paraguay and the Gran Chaco Trouble Zone, October 10, 1932.
Iraq, Manchuria, the Chaco and Siam in 1932 Spotlight, January 16, 1933.
**Peru:** The Upper Amazon and Its Seaports 2,000 Miles from the Sea, January 23, 1933.
**Surinam (Dutch Guiana):** Surinam Toad Carries a Nursery on Its Back, illustrated, November 28, 1932.
**Venezuela:** Explorer Explodes Some Fallacies of Tropic Regions, illustrated, April 18, 1932.

## ISLANDS

**Bahama:** Bahama Islands, Our Little Known British Neighbors, illustrated, April 25, 1932.
**Balearic:** Balearic Islands, a New Mecca for Tourists and Artists, 2 illustrations, January 9, 1933.
**Bermuda:** New "Low" Reached in Deep-Sea Diving off Bermuda, map, October 17, 1932.
**Borneo:** British North Borneo, Where "Wild Men" Have Been Tamed, illustrated, April 18, 1932.

**Education**—*Continued*
Additional illustrations: Chinese School Girls, February 22, 1932; Classes Studying Pictorial Geography, February 22, 1932, and April 25, 1932; Filipino School Children, March 7, 1932; Railway School Car, Canada, January 16, 1933.
**Expeditions:** Trans-Asiatic Expedition Follows Age-Old Caravan Route into Peiping, March 7, 1932.
Kashmir's "Happy Valley" Experiences an Uprising, March 14, 1932.
How First Natural Color Pictures of Peiping's Forbidden City Were Obtained, April 11, 1932.
Tribute Paid to Explorer First to Cross Africa and Asia by Motor, illustrated, May 2, 1932.
Eclipse Expedition Gets Rare Photographs from Five Miles Up, October 10, 1932.
Railway from Holy Land to Baghdad Is Proposed, illustrated, October 17, 1932.
New "Low" Reached in Deep-Sea Diving off Bermuda, 2 illustrations, October 17, 1932.
Little Is Known about the Mysterious Cosmic Ray, November 14, 1932.
Minya Konka, Snow-Clad Giant of the China-Tibet Borderland, illustrated, December 19, 1932.
Explorations of 1932 Mostly on "Vertical Scale," illustrated, January 23, 1933.
**Forts:** Illustrations: El Caney Fort, Cuba, February 29, 1932; Morro Castle, San Juan, Puerto Rico, October 17, 1932; Kremlin, Moscow, U.S.S.R., November 7, 1932; Fortress-Monastery, Mt. Sinai, Egypt, December 12, 1932.
**Government:** Shanghai Is Three Cities in One, February 15, 1932.
(League of Nations) Geneva, Scene of World Disarmament Conference, February 29, 1932.
The Twenty-Eight States of Mexico, illustrated, April 25, 1932.
Bolivia, Paraguay and the Grand Chaco Trouble Zone, October 10, 1932.
(League of Nations) The Saar, Bone of Contention Between France and Germany, October 17, 1932.
(League of Nations) Iraq, First Graduate of League's School for Statehood, October 31, 1932.
The World's Newest State Name: Saudi Arabia, November 14, 1932.
Sulu Islands, Where Uncle Sam Has a Miniature Revolt, December 5, 1932.
Northern Ireland Gets New Parliament Building, December 5, 1932.
Three Hundred Years of Maryland's Charter, December 19, 1932.
Greenland's East Coast Claimed by Norway and Denmark, January 2, 1933.
Iraq, Manchuria, the Chaco, and Siam in 1932 Spotlight, January 16, 1933.
America's Far Flung Overseas Domain, illustrated, February 6, 1933.
New Central American Border Touches "Kashmir" of Honduras, February 13, 1933.
Micronesia, Japan's Lonely Mandate in the Pacific, February 13, 1933.
**Holidays and Festivals:** More Geographic "April Foolers," 2 illustrations, March 28, 1933.
Additional illustration: Easter celebrations, Mexico, February 13, 1933.
**Houses and Native Homes:** Gunston Hall, Historic Mason Estate, Given to Virginia, illustrated, March 21, 1932.
Additional illustrations: Mt. Vernon, February 22, 1932; Interior of Eskimo's Tent, October 24, 1932; Interior of Native Home in New Guinea, December 12, 1932; Interior of Modern Greek Home, January 30, 1933.
**Inns:** The Old English Inn Still Has Its Sign Out, illustrated, April 4, 1932.
**Music:** Florence (Italy) Prepares for Opera and Music Festival, January 23, 1933.
Additional illustrations: Philippine Ukelele, March 7, 1932; Bolivian Indian Pipes, October 10, 1932; African Bamboo-Stringed Instrument, November 14, 1932.
**Names:** More Geographic "April Foolers," March 28, 1932.
The World's Newest State Name: Saudi Arabia, November 14, 1932.
The Turk in Search of a Surname, January 9, 1933.
What's in a Place-Name? illustrated, January 30, 1933.
**National Geographic Society:** Trans-Asiatic Expedition Follows Age-Old Caravan Route into Peiping, March 7, 1932.
How First Natural Color Pictures of Peiping's Forbidden City Were Obtained, April 11, 1932.
Explorer Explodes Some Fallacies of Tropic Regions, April 18, 1932.
Tribute Paid to Explorer First to Cross Africa and Asia by Motor, May 2, 1932.
Eclipse Expedition Gets Rare Photographs from Five Miles Up, October 10, 1932.
Railway from Holy Land to Baghdad Is Proposed, illustrated, October 17, 1932.
World Changes Keep Map Makers on the Jump, December 5, 1932.
Minya Konka, Snow-Clad Giant of the China-Tibet Borderland, illustrated, December 19, 1932.
Explorations of 1932 Mostly on "Vertical Scale," illustrated, January 23, 1933.
Additional illustrations: Staff Photographer in England, March 28, 1932; Peary Memorial Erected by National Geographic Society, December 5, 1932.
**Parks, Monuments, and Shrines:** The Everglades, Florida's Bid for a National Park, March 14, 1932.
Colorado's Sand Dunes Latest National Monument, May 2, 1932.
Arlington, "Fame's Eternal Camping Ground," 2 illustrations, December 5, 1932.
Alexandria Plans First National Shrine to Education, illustrated, December 12, 1932.
Theodore Roosevelt Island, a Potomac "Jungleland," January 2, 1933.
Mount McKinley and Our Second Largest National Park, illustrated, January 30, 1933.
Additional illustration: Custer State Park, S. D., March 28, 1932.
**Races and Tribes:** How the Chinese Eat, Work, Travel, Worship and Play, 2 illustrations, February 22, 1932.
How Do Jungle Tribes and the Eskimos Differ? 3 illustrations, March 7, 1932.
African Jungle Tribes Have "Ugliest" Beauty, illustrated, March 21, 1932.
The Eskimo, Guardian of the Last Frontier, April 25, 1932.
Sulu Islands, Where Uncle Sam Has a Miniature Revolt, December 5, 1932.
City Brought by Air Rises in New Guinea Jungle, 2 illustrations, December 12, 1932.
Micronesia, Japan's Lonely Mandate in the Pacific, February 13, 1933.
Additional illustrations: Japanese, February 15, 1932; Swiss Cowherd, February 29, 1932; Ukrainian Children, February 29, 1932; Cubans, February 29, 1932; Corsican Brushwood Vender and Milkmaid, March 7, 1932; Arab Fishermen, Somaliland, March 7, 1932; Paraguayan Girl, March 14, 1932; Germans in Peasant Costume, March 21, 1932; Manchurians, March 28, 1932; Greek Girls, April 4, 1932, and January 30, 1933; Samaritans, April 4, 1932; Japanese Royalty in Washington, April 11, 1932; Koreans, April 11, 1932; Dayak of Borneo, April 18, 1932; Bolivian Indians, October 10, 1932; Fuzzy-Wuzzies, Anglo-Egyptian Sudan, October 24, 1932; African Natives, November 14, 1932; Indian Child, Ecuador, January 9, 1933; Huitoto Indian, Colombia, January 23, 1933; Filipino Negritos, February 6, 1933; Batak Tribe, Sumatra, January 30, 1933.
**Resorts:** Lake Placid, Scene of Olympic Winter Games, February 15, 1932.
Gibraltar, Limestone Sentinel of the Mediterranean, 2 illustrations, November 28, 1932.
Balearic Islands, a New Mecca for Tourists and Artists, 2 illustrations, January 9, 1933.
Additional illustration: Palm Beach, Florida, January 30, 1933.
**Sports and Games:** Lake Placid, Scene of Olympic Winter Games, illustrated, February 15, 1932.
Toy Fair Sets Stage for the Paris Christmas, December 19, 1932.
Additional illustrations: Ukrainian Children at Play, February 29, 1932; Climbing a Greased Bamboo Pole, Philippine Islands, March 7, 1932; Playing Chess at Strõbeck, Germany, March 21, 1932; Hungarian Lasso, April 18, 1932; Rowing on the Thames, November 7, 1932; Playing Pachisi, Bengal, India, November 7, 1932; Jousting Tournament, Maryland, December 19, 1932; Canoe Tilting, Potomac River, January 2, 1933; Filipinos with Bows and Arrows, February 6, 1933; Prehistoric Ball Game Revealed by Mexican Images, February 13, 1933.
**Temples:** Illustrations: "Castello," Chichen Itzá, Yucatan, February 15, 1932; Lama Temple, Peiping, China, April 11, 1932.
**Treasure Hunting:** Cocos Island Again Mocks Treasure Hunters, October 31, 1932.
**Washington, George:** New York City to Reproduce Mount Vernon, February 22, 1932.
To Honor Washington on World's Most Famous Battlefield, April 4, 1932.
Alexandria Plans First National Shrine to Education, December 12, 1932.
**Windmills:** Illustration: Windmills, Balearic Islands, January 9, 1933.

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**Glass:** "One-Way" Glass, Latest Development of Industry 5,000 Years Old, illustrated, February 22, 1932.
**Gold:** The World's Ever-Shifting Pile of Gold, illustrated, March 28, 1932.
**Highways and Roads:** New Bridges, Dams, Highways, Canals and Railroads of 1932, January 16, 1932.
Motor Highway to Mexico City Nearing Completion, February 13, 1933.
Additional illustrations: Tamiami Trail, Florida, March, 14 1932; Gilgit Road in the Pamir, May 2, 1932; Citroën-Haardt Trans-Asiatic Expedition Entering Damascus, October 17, 1932.
**Leather (shark):** "Sharking," a New and Exciting Sea Industry, October 24, 1932.
**Licorice Root:** Illustration: Licorice Root Prepared for Export, Syria, November 21, 1932.
**Linen:** Weaving Linen Tablecloths, Belfast, Ireland, December 5, 1932.
**Mercury:** Mercury, Liquid Metal of a Thousand Uses, October 10, 1932.
**Mining:** The Saar, Bone of Contention Between France and Germany, illustrated, October 17, 1932.
Eastern Galicia, Poland's Storehouse of Salt, Oil and Coal, February 13, 1933.
Additional illustrations: Salt Mining, near Detroit, Michigan, February 29, 1932; Gold Mining Dredges on the Klondike, March 28, 1932; Coal Mining, Fushun, Manchuria, January 16, 1933; Copper Mining, Chile, January 16, 1933.
**Oil:** Fish-jaw Oil Lubricates Delicate Machinery, March 7, 1932
Gibraltar, Limestone Sentinel of the Mediterranean, November 28, 1932.
**Oysters:** Illustrations: Oysters Attached to Mangrove Roots, Jamaica, Novmber 28, 1932.
**"Pearl" Buttons:** "Pearl" Buttons from Mississippi Mud Banks, illustrated, January 9, 1932.
**Ports and Harbors:** Cartagena, Walled City of the Spanish Main, illustrated, March 21, 1932.
Additional illustration: Cobh, Ireland, Ocean Port, March 14, 1932.
**Pottery:** Illustrations: Pottery Piled on the Dock, Cartagena, Colombia, March 21, 1932; Open-air Pottery Market, São Paulo, Brazil, October 24, 1932
**Radio:** Illustration: Radio Towers, Little America, November 14, 1932
**Railroads:** Harbin, Manchurian City Which Railroads Built, illustrated, February 22, 1932.
Java's De Luxe Trains Traverse Land of Primitive Artisans, March 7, 1932.
Railway from Holy Land to Baghdad Is Proposed, October 17, 1932.
São Paulo, Center of Brazil's "Tempest in a Coffee Pot," October 24, 1932.
A Steamer That Takes a Freight Train to Sea, illustrated, November 21, 1932.
Angangki, at the "Spark Gap" of Northwestern Manchuria, map, November 28, 1932.
New Nicaraguan Railway Near Proposed Canal Route, January 9, 1933.
Quito, a City on the Equator with a Springlike Climate, January 9, 1933.
New Bridges, Dams, Highways, Canals and Railroads of 1932, illustrated, January 16, 1933.
Sakhalin Island, Where Japan and Soviet Russia Meet, January 23, 1933.
Additional illustrations: Trans-Andean Railway, Chile, May 2, 1932; Mukden-Tientsin Railway, October 10, 1932; Railway School Car, Canada, January 16, 1933.
**Rice:** Rice, Staff of Life for Half the World, 4 illustrations, January 30, 1933.
Additional illustration: Rice Farm, Philippine Islands, March 7, 1932.
**Rubber:** Johore, the Fertile Florida of Asia and Its Rubber Farms, illustrated, February 15, 1932.
Bilbao, the Pittsburgh of Northern Spain, December 12, 1932.
**Salt:** Salt, the World's Most Essential Mineral, illustrated, February 29, 1932.
Eastern Galicia, Poland's Storehouse of Salt, Oil and Coal, February 13, 1933.
**Shark Industry:** "Sharking," a New and Exciting Sea Industry, October 24, 1932.
**Soap:** Search for Soap Ingredients Is World-Wide, illustrated, February 6, 1933.
**Sponges:** Bahama Islands, Our Little Known British Neighbors, April 25, 1932.
**Sugar:** Sugar's Long Journey to the Dinner Table, illustrated, April 11, 1932.
Netherland India, the Equator's Emerald Necklace, January 30, 1933.
Additional illustration: Planting Sugar Cane, Florida Everglades, March 14, 1932.
**Tariffs:** How Great Nations Extend Their Foreign Trade, November 28, 1932.
**Tea:** Illustration: Brick Tea Used for Money in Mongolia, October 17, 1932.
**Textiles:** Java's De Luxe Trains Traverse Land of Primitive Artisans, March 7, 1932.
**Transportation:** The Romantic Ohio Now a Busy Artery of Trade, November 14, 1932.
A Steamer That Takes a Freight Train to Sea, illustration, November 21, 1932.
The St. Lawrence, Historic Highroad to the West, illustrated, December 5, 1932.
Additional illustrations: Automobile, England, March 28, 1932; Manchurian Ox-Cart, March 28, 1932; Tractor Cars, Asia, May 2, 1932, and January 23, 1933; Milkcart Drawn by Dog, Netherlands, October 10, 1932; Unloading Bananas, November 7, 1932; Mule Caravan, Saudi Arabia, November 14, 1932; Ox-cart Transports Wood, French Guiana, November 14, 1932; Jinrikishas, Hong Kong, China, December 12, 1932; Loading Horses and Yaks, China, December 19, 1932; Railway School Car, Canada, January 16, 1933; Wine Cart, Italy, January 23, 1933; Donkeys Transport Fish, Arabia, February 6, 1933; Cable Car, San Francisco, February 6, 1933; Traveling on Ponies, Honduras, February 13, 1933.
**Weaving:** Illustrations: Needlework Done by Men in Kashmir, March 14, 1932; Weaving the Serapé, Mexico, April 25, 1932.
**Wheat:** Wheat, King of Cereals, and the Australian Grain Race, illustrated, January 2, 1933.
**Wines:** Illustration: Italian Wine Cart, January 23, 1933.
**Wood Carving:** Illustration: Woodcarvers at Work, Indo-China, January 2, 1933.

## HUMAN GEOGRAPHY

**Art and Architecture:** Florence (Italy) Prepares for Opera and Music Festival, January 23, 1933.
Additional illustrations: North Gate, Teheran, Persia, February 29, 1932; Taj Mahal, Agra, India, November 7, 1932; Sidewalk Artist, London, November 21, 1932; Amphitheater and Tomb of the Unknown Soldier, Arlington, Va., December 5, 1932; City Hall, Belfast, Ireland, December 5, 1932; Arc de Triomphe, Paris, December 19, 1932; Legislative Building, Manila, February 6, 1933.
**Buddha's Cave:** Buddha's Cave Reported Found in Bengal, India's Tiger-land, November 7, 1932.
**Castles and Palaces:** Illustrations: Palace of Ilha Fiscal, Rio de Janeiro, March 14, 1932; Chapultepec Castle, Mexico, April 25, 1932; Morro Castle, San Juan, Puerto Rico, October 17, 1932; Castle Miramar, Balearic Islands, January 9, 1933.
**Churches, Cathedrals, and Monasteries:** Mount Athos Welcomes the Visitor to the Middle Ages, October 24, 1932.
Additional illustrations: Holy Trinity, Stratford-on-Avon, May 2, 1932; Fortress-Monastery, Mount Sinai, Egypt, December 12, 1932.
**Circus:** The Circus, a World Geography "Lesson" on a Vacant Lot, 3 illustrations, May 2, 1932.
**Clothing and Costumes:** Illustrations: Japanese Clothing, February 15, 1932; Pahlavi (visored cap), Persia, February 29, 1932; Corsican Costumes, March 7, 1932; Filipino Clothing, March 7, 1932; "Spanish Shawl," Paraguay, March 14, 1932; German Peasant Costume, March 21, 1932; Greek Costumes, April 4, 1932, Hungarian Cowboy, April 18, 1932; Czechoslovakian Dresses, April 18, 1932; Jewelry and Clothing; Borneo, April 18, 1932; The Serape, Mexico, April 28, 1932; Dutch Costumes, October 10, 1932; Sombreros, Mexico, April 25, 1932; German Coal Miner Wearing Tin Boots, October 17, 1932; Heralds' Costumes, Bilbao, Spain, December 12, 1932; Indo-Chinese Headgear, January 2, 1933; Chinese Farmers' Raincoats, January 30, 1933; Greek Costumes, January 30, 1933; Polish Costumes, February 13, 1933.
**Customs:** African Jungle Tribes Have "Ugliest" Beauty, illustrated, March 21, 1932.
City Brought by Air Rises in New Guinea Jungle, illustrated, December 12, 1932.
The Turk in Search of a Surname, illustrated, January 9, 1933.
Micronesia, Japan's Lonely Mandate in the Pacific, February 13, 1933.
Additional illustrations: Columns Used in Celebration Following New Year's Day, Paotow, China, March 7, 1932; Blessing the Wheat Fields, Hungary, January 2, 1933.
**Education:** Alexandria Plans First National Shrine to Education, illustrated, December 12, 1932.

## NATURE STUDY

**Animals:** The Circus, a World Geography "Lesson" on a Vacant Lot, 3 illustrations, May 2, 1932.
The Gorilla, a Good-Natured Jungle Dweller, illustrated, October 31, 1932.
Additional illustrations: Horse and Donkey, Corsica, March 7, 1932; Camel, Ethiopia, March 28, 1932; Cow, Nicaragua, April 18, 1932; Dog Used as Draft Animal, Netherlands, October 10, 1932; Mule Caravan, Saudi Arabia, November 14, 1932; Oxen, French Guiana, November 14, 1932; Horse Ridden by Soldier of Horse Guards, November 21, 1932; Horse, Maryland, December 19, 1932; Horses and Yaks, China, December 19, 1932; Musk Oxen, Greenland, January 2, 1933; Donkey, Arabia, February 6, 1933; Oxen, China, January 30, 1933; Ponies, Honduras, February 13, 1933.

**Artesian Well:** Illustration: Artesian Well on Sapelo Island, Georgia, March 28, 1932.

**Bays:** (Chesapeake) Crabs—Sponge, Green, Peeler, Buster, Soft Shell, Buckram and Hard Shell, April 18, 1932.
Additional illustration: A Bahama Bay, April 25, 1932.

**Birds:** Illustrations: Flamingos, Florida, March 14, 1932; Cassowary, New Guinea, December 12, 1932.

**Cattle:** Illustration: Guernsey Cattle on Channel Island, April 4, 1932.

**Crabs:** Crabs—Sponge, Green, Peeler, Buster, Soft Shell, Buckram, and Hard Shell, illustrated, April 18, 1932.

**Deserts:** Railway from Holy Land to Baghdad Is Proposed, October 17, 1932.
The World's Newest State Name: Saudi Arabia, illustrated, November 14, 1932.

**Earthquakes:** Mount Athos Welcomes the Visitor to the Middle Ages, October 24, 1932.
Additional illustration: Tokyo After Earthquake of 1923, February 15, 1932.

**Fish:** Fish-Jaw Oil Lubricates Delicate Machinery, illustrated, March 7, 1932.
"Sharking," a New and Exciting Sea Industry, illustrated, October 24, 1932.

**Flowers and Plants:** Ginseng, Which the United States Grows but Does Not Use, December 12, 1932.
Additional illustrations: Boxwood, Gunston Hall, Va., March 31, 1932; Lilies, Mexico, April 25, 1932; Tree-like Plants, Africa, November 14, 1932.

**Icebergs:** Coast Guard Engaged in Annual "Battle with the Bergs," map, April 25, 1932.

**Insects:** The Locust: Food, Fodder, and Pest, 2 illustrations, April 4, 1932.

**Lakes:** Holland's Historic Zuiderzee Becomes Farmland and Lake, map, October 10, 1932.
The Lakes of Killarney, Ireland's Most Famed Beauty Spot, illustrated, December 19, 1932.
Additional illustration: Lake Geneva, Switzerland, February 29, 1932.

**Mountains:** Ober-Gurgl, Tyrol Village Where Man's Highest Flight Ended, March 21, 1932.
Volcanic Ash, Added Hazard on "Most Difficult Airmail Route," illustrated, May 2, 1932.
Ruwenzori Range, Africa's Queer "Mountains of the Moon," illustrated, November 14, 1932.
"Shepherds of the Sun" Choose Neighbor of Mount Sinai, illustrated, December 12, 1932.
Minya Konka, Snow-Clad Giant of the China-Tibet Borderland, illustrated, December 19, 1932.
Volcanoes of the Andes, Safety Valves of South America, illustrated, January 16, 1933.
Pikes Peak, North America's Best Known Mountain, illustrated, January 23, 1933.
Mount McKinley and Our Second Largest National Park, illustrated, January 30, 1933.
Additional illustrations: Mt. Blanc, Switzerland, February 29, 1932; Himalayas, May 2, 1932; Rocky Mountain Sandstone, May 2, 1932.

**Mussels:** "Pearl" Buttons from Mississippi Mud Banks, illustrated, January 9, 1933.

**Rivers:** The Danube, Central Europe's Busiest Trade Artery, illustrated, April 18, 1932.
(Amazon, Orinoco, Casiquiare) Explorer Explodes Some Fallacies of Tropic Regions, illustrated, April 18, 1932.
Anglo-Egyptian Sudan, Land of Cotton, Gum Arabic, and Ivory, illustrated, October 24, 1932.
The Thames, a Pageant of English Life and History, 2 illustrations, November 7, 1932.
The Romantic Ohio Now a Busy Artery of Trade, illustration, November 14, 1932.
The St. Lawrence, Historic Highroad to the West, December 5, 1932.
Bilbao, the Pittsburgh of Northern Spain, 2 illustrations, December 12, 1932.
Theodore Roosevelt Island, a Potomac "Jungleland," illustrated, January 2, 1933.
"Pearl" Buttons from Mississippi Mud Banks, January 9, 1933.
The Rio Grande, Our Most Restless Boundary, illustrated, January 16, 1933.
The Upper Amazon and Its Seaports 2,000 Miles from the Sea, illustrated, map, January 23, 1933.
Additional illustrations: Potomac Approach to Mt. Vernon, February 22, 1932; Klondike River, March 23, 1932; Black River, Jamaica, November 28, 1932.

**Sand:** Colorado's Sand Dunes Latest National Monument, illustrated, May 2, 1932.

**Toads and Frogs:** Surinam Toad Carries a Nursery on Its Back, illustrated, November 28, 1932.

**Tornadoes and Hurricanes:** Tornadoes, Their Pranks and Vagaries, illustrated, April 11, 1932.
Puerto Rico, "The Switzerland of the West Indies," illustrated, October 17, 1932.

**Trees:** "Seeing Cherry Trees in Bloom" Now a Washington Tradition, 2 illustrations, April 11, 1932.
British North Borneo, Where "Wild Men" Have Been Tamed, April 18, 1932.
Additional illustrations: Rubber Tree near Singapore, February 15, 1932; Cherry Blossoms, Tokyo, February 15, 1932; St. Helena Willows Along Potomac River, February 22, 1932; Garden at Gunston Hall, Virginia, March 21, 1932; Knotted Trees, Ethiopia, March 28, 1932; Avenue of Trees Leading to Holy Trinity, Stratford-on-Avon, May 2, 1932; Oysters Attached to Mangrove Trees, Jamaica, November 28, 1932; Natives Burn Holes in Trees to Collect Resin, Siam, January 16, 1933.

**Volcanoes:** Greek Island of Thira To Harness Volcanic Heat, April 4, 1932.
Volcanic Ash, Added Hazard on "Most Difficult Airmail Route," May 2, 1932.
Volcanoes of the Andes, Safety Valves of South America, illustrated, January 16, 1933.

**Winds:** How the Nations Name Their Winds, March 14, 1932.

## POPULAR SCIENCE

**Archeology:** Oaxaca, and "An American Tomb of Tutankhamen," February 15, 1932.
Huge Stadium Found at "Antioch the Glorious," illustrated, November 21, 1932.
Additional illustration: Prehistoric Mexican Images, February 13, 1933.

**Astronomy:** Eclipse Expedition Gets Rare Photographs from Five Miles Up, illustrated, October 10, 1932.
"Shepherds of the Sun" Choose Neighbor of Mount Sinai, December 12, 1932.

**Aviation:** Ober-Gurgl, Tyrol Village Where Man's Highest Flight Ended, March 21, 1932.
Volcanic Ash, Added Hazard on "Most Difficult Airmail Route," May 2, 1932.
City Brought by Air Rises in New Guinea Jungle, December 12, 1932.
Natal, Aerial Front Door to Brazil, February 6, 1933.

**Cartography:** World Changes Keep Map Makers on the Jump, December 5, 1932.

**Chemistry:** Illustration: Dye-yielding Wood, Jamaica, November 28, 1932.

**Engineering:** Holland's Historic Zuiderzee Becomes Farmland and Lake, October 10, 1932.
Anglo-Egyptian Sudan, Land of Cotton, Gum Arabic, and Ivory, illustrated, October 24, 1932.
Italy Reclaims Historic but Malarial Pontine Marshes, October 31, 1932.
Modernized Tadzhikistan, a Hidden Corner of Old Turkestan, November 21, 1932.
The St. Lawrence, Historic Highroad to the West, illustrated, December 5, 1932.
Too Much Water Halts Panama Canal Traffic, illustrated, December 19, 1932.
Shanhaikwan, Where China's Great Wall Meets the Sea, illustrated, January 16, 1933.
New Bridges, Dams, Highways, Canals, and Railroads of 1932, illustrated, January 16, 1933.
Bridging San Francisco Bay, illustrated February 6, 1933.
Motor Highway to Mexico City Nearing Completion, February 13, 1933.
Additional illustrations: Dam, Ohio River, November 14, 1932; Repairing Tractor Cars, Mongolian Desert, January 23, 1933.

**Oceanography:** New "Low" Reached in Deep-Sea Diving Off Bermuda, 2 illustrations, October 17, 1932.
Plan Survey of Arabian Haunts of Sindbad the Sailor, February 6, 1933.

**Physics:** Little Is Known About the Mysterious Cosmic Ray, November 14, 1932.

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